# **Functionality and usability exemplified** by electronic ship logbooks



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Kathleen Kuhn



Company

#### ENGINEERING SOCIETY FOR MARITIME SAFETY TECHNOLOGY AND MANAGEMENT LTD.



25 years of experience

Excellent competences and external network

more than 200 satisfied customers in maritime industry

Employees with different maritime background (navigation, engine, environment, HSE, IT)

# Company







# Solutions

Electronic Record Books Decision Support Systems People Tracking / eMustering Central Security Monitoring Fire Detection Monitoring Fire Doors & Dampers Data Management / Hosting

# Engineering

Safety Plan / Evacuation Analysis Ballast Water Management Plan Cargo Securing Manual Damage Control Plan / Booklet US (NTVRP, NPDES) Emergency Towing Booklet Polar Water Operational Manual SOPEP, SEEMP, Sewage, Garbage, Asbestos, Mooring etc.

# Consulting

Ship Management (ISM/ISPS/MLC) Quality (ISO 9001) Environmental (ISO 14001, 50001) Occupational (OHSAS, FaSi) TMSA (Self-Assessment) Sustainability Reporting (GRI) MARPOL (IMO-DCS, CII, IHM)

#### <u>MARSIG</u>

# **International Regulations**



#### ANNEX 1

RESOLUTION MEPC.312(74) (adopted on 17 May 2019)

#### GUIDELINES FOR THE USE OF ELECTRONIC RECORD BOOKS UNDER MARPOL

Oil, Cargo, Garbage, ODS, Fuel Change Over,... Record Books

**International Regulations** 



# INTERNATIONAL STANDARD

ISO 21745



MARSI

# Electronic record books for ships — Technical specifications and operational requirements

Journaux de bord électroniques — Spécifications techniques et exigences opérationnelles

# <u>MARSIG</u>

# Functionality and usability exemplified by electronic ship logbooks



#### **Power Supply**

Automatically to emergency power



#### Validation

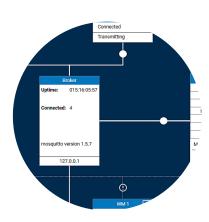
User rights, Login, RBAC, verification

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#### Data Storage

Content, type, protection, recovery, VDR, status



#### System Availability

Redundancy and independence



#### **Record Management**

Access, modifications, events, particulars, exchange



Human-Machine Interface

Ergonomic criteria

#### searecGARBAGE - 2.2.19.5438 2024-01-12 10:36-2024-01-26 10:36

				(All ships)		ulation 1.2 (Definitions)	
JG Demo Ship 0003			Distinctive number or letters DEMDS			IMO number 1234567	
	gories						
			B - Food wastes			C - Domestic wastes	
e .			E - Incinerator ashes			F - Operational wastes	
ercasses.			<ol> <li>Fishing gear ions 4 (Discharge of garbage outside)</li> </ol>			1 - E-waste	
	(latitude/longitude) or port	Cate-	discharged To reception		Estimated amount	Remarks: (e.g. start/stop time and position of	Certifi
	Position of the ship	Cate- gory	Estimated amount			e within special areas) or c	napter 5 c
				To reception facility or to another ship (m <sup>3</sup> )	incinerated (m <sup>8</sup> )	incineration; general remarks)	Sign
			2			Garbage discharge into the sea	crea Klam
	05°02.000'N 008°05.000'E	8				dried	
	05°02.000'N 008°05.000'E	8				dried	w
	05'02.000'N 008'05.000'E	8				dried Garbage Incineration	
	05*02.000*N 008*05.000*E	8			,		

## System Output

Format and type



### System Updates

According legal requirements



# **Our Solution**





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